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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/975,466 20995 7	10/09/2001 590 07/23/2002	Auguste J.L. Sophie	ASMMC.036AUS	8303	
KNOBBE MARTENS OLSON & BEAR LLP 620 NEWPORT CENTER DRIVE SIXTEENTH FLOOR NEWPORT BEACH, CA 92660			EXAMINER		
			KIELIN, ERIK J		
NEWFORT BI	SACH, CA 92000		ART UNIT	PAPER NUMBER	
			2813		
			DATE MAILED: 07/23/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	am		
Office Action Summary		09/975,466	SOPHIE ET AL.			
		Examiner	Art Unit			
		Erik Kielin	2813			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	orrespondence add	iress		
THE II - Exter after - If the - If NO - Failul - Any n earne	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed rs will be considered timely. In the mailing date of this cor D (35 U.S.C. § 133).	mmunication.		
Status 1)⊠	Responsive to communication(s) filed on 17 A	Incil 2002				
2a)□		s action is non-final.				
3)□	Since this application is in condition for allowa		raccoution as to the	s madta ia		
•	closed in accordance with the practice under long of Claims			; ments is		
4) 🖂	Claim(s) 1-32 is/are pending in the application			,		
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)[Claim(s) is/are rejected.					
7)	Claim(s) is/are objected to.					
	Claim(s) 1-32 are subject to restriction and/or e	election requirement.				
	on Papers					
·	The specification is objected to by the Examiner					
10) 🗌 🗆	The drawing(s) filed on is/are: a)□ accep	,— •				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.						
40)□ 7	If approved, corrected drawings are required in rep					
12) The oath or declaration is objected to by the Examiner.						
-	nder 35 U.S.C. §§ 119 and 120					
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	i)-(d) or (f).			
-	☐ All b)☐ Some * c)⊠ None of:					
	1. Certified copies of the priority documents					
	2. Certified copies of the priority documents					
	 Copies of the certified copies of the priori application from the International Bur ee the attached detailed Office action for a list of 	eau (PCT Rule 17.2(a)).		Зtage		
14) <u></u> A	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e) (to a provisional :	application).		
	☐ The translation of the foreign language prodecknowledgment is made of a claim for domestic	* *		,		
Attachment		. ,	•			
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s Patent Application (PTO			
S. Patent and Tra PTO-326 (Rev		tion Summary	Part of	Paper No. 5		

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DETAILED ACTION

Priority

1. Applicant is advised of possible benefits under 35 U.S.C. 119(a)-(d), wherein an application for patent filed in the United States may be entitled to the benefit of the filing date of a prior application filed in a foreign country.

Examiner notes that the Declaration submitted 17 April 2002 does **not** make a claim for priority. The unsigned declaration provided during filing of the application does not remedy this deficiency. Application may submit a new declaration claiming priority if such priority is desired.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-17 and 28-32, drawn to a method of reducing surface copper oxide of copper metallization using an organic compound, classified in class 438, subclass
 - II. Claims 18-27, drawn to a method of reducing surface copper oxide of copper metallization using a hydrogen plasma, classified in class 438, subclass 710.

The inventions are distinct, each from the other because of the following reasons:

3. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not disclosed as capable of use together because the methods of reducing the

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copper oxide are separately used, in different embodiments to achieve the same purpose of reducing the incidental surface copper oxide. At least the modes of operation are necessarily different because an organic compound having an alcohol, aldehyde, or carboxylic acid functional group reduces copper oxide in a different manner from a hydrogen plasma.

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
- Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erik Kielin whose telephone number is 703-306-5980. The examiner can normally be reached on 9:00 - 19:30 on Monday through Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached at 703-306-2417. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Erik Kielin

July 22, 2002